

# THODEM VENKATA DINESH REDDY

Senior Undergraduate  
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## EDUCATION

| Degree | Specialization                  | Institute               | Year      | CGPA/% |
|--------|---------------------------------|-------------------------|-----------|--------|
| B.Tech | Information Technology          | VIT Vellore             | 2022-2026 | 8.91   |
| HSC    | Physics, Chemistry, Mathematics | Sri Chaitanya College   | 2022      | 93.4%  |
| SSC    | CBSE Board                      | Dr.KKR'S Gowtham School | 2020      | 89.6%  |

## TECHNICAL SKILLS

- Programming Languages:** C++ (DSA & Competitive Programming), Python (AI/ML/RL), Java, JavaScript, SQL
- AI/ML & GenAI:** LangChain, HuggingFace Transformers, RAG Systems, Groq API, ChromaDB, Semantic Search, NLP
- Web Technologies:** React.js, Next.js, Node.js, Express.js, FastAPI, HTML5, CSS3, Streamlit
- Databases:** MySQL, MongoDB, Vector Databases
- Tools & Platforms:** Git/GitHub, VS Code, Jupyter Notebook, Google Colab

## PROJECTS

- GenAI Medical Advisor** *[FastAPI, Streamlit, LangChain, ChromaDB, HuggingFace, Groq]*
  - Developed an AI-powered assistant using RAG to answer medical queries with 90%+ accuracy.
  - Integrated LangChain with ChromaDB and HuggingFace for efficient document retrieval.
  - Achieved sub-3s response time using Groq API with a scalable FastAPI–Streamlit architecture.
- Habit Tracker Web Application** *[React.js, Node.js, Express.js, MongoDB]*
  - Built a full-stack habit tracker with JWT-based auth and MongoDB integration.
  - Designed a responsive React dashboard with real-time analytics using Context API.
  - Implemented RESTful APIs and modern UX features like theme toggle and route protection.

## ACHIEVEMENTS

- Problem Solving:** Solved 450+ problems on LeetCode with strong focus on Data Structures & Algorithms
- Academic Excellence:** Maintained 8.91 CGPA while actively developing technical projects and participating in coding competitions
- Full-Stack Expertise:** Created full-stack web applications to solve real-world problems, gaining hands-on experience in building scalable and modular solutions using modern technologies

## CERTIFICATIONS

- MySQL Implementation Certified Associate** *[Oracle]* Jun 2025
  - Demonstrated expertise in MySQL Enterprise Edition including installation, database design, backup, and replication.
  - Proficient in implementing MySQL security, enabling high availability, and monitoring MySQL performance.
  - Gained foundational knowledge of Oracle HeatWave and cloud-based MySQL deployment.
- Java Full Stack Development Course** *[iamNeo]* Jun–Jul 2024
  - Completed training in Java, Spring Boot, Angular, HTML5, CSS3, JavaScript, and SQL
  - Gained foundational knowledge of full-stack development and RESTful API design

## PROGRAMMING PROFILES

- LeetCode:** [leetcode.com/u/thodemdinesh/](https://leetcode.com/u/thodemdinesh/) – Solved 450+ problems with strong emphasis on Data Structures and Algorithms (DSA)